

© EPODOC / EPO

PN - JP2000274566 A 20001003
 TI - DISPLACEMENT ABSORBING TYPE FLANGE PIPE COUPLER STRUCTURE
 FI - F16L23/02&B
 PA - OSAKA GAS CO LTD; SUMITOMO METAL IND
 IN - NAKAJIMA KIMIO; SHIMAZAKI YASUO
 AP - JP19990083386 19990326
 PR - JP19990083386 19990326
 DT - I

© WPI / DERWENT

AN - 2000-659997 [64]
 TI - Displacement absorption type flange fitting structure for e.g. town gas piping, has spring washer arranged at inner side of nut fastened on flange from which gasket is coupled
 AB - JP2000274566 NOVELTY - A flange fitting structure (1) consists of a gasket (5) coupled between the flanges (2a) fastened with the coupled bolt (3) and nut (4). A seal is provided at the outer side of the U-shaped gasket. A spring washer (7) is arranged between the flange and the nut.
 - USE - For e.g. town gas piping.
 - ADVANTAGE - Reduces weight of load which acts on pipe line by providing spring washer between flange and nut. Prevents leakage of liquid by providing seal at outer side of gasket. Prevents displacement of pipe line by providing spacer ring between flanges and gasket.
 - DESCRIPTION OF DRAWING(S) - The figure shows the explanatory general view of a displacement absorption type flange fitting structure.
 - Flange fitting structure 1
 - Flanges 2a
 - Bolt 3
 - Nut 4
 - Gasket 5
 - Spring washer 7
 - (Dwg.1/3)
 IW - DISPLACEMENT ABSORB TYPE FLANGE FIT STRUCTURE TOWN GAS PIPE SPRING WASHER ARRANGE INNER SIDE NUT FASTEN FLANGE GASKET COUPLE
 PN - JP2000274566 A 20001003 DW200064 F16L23/026 004pp
 IC - F16L23/024 ;F16L23/026 ;F16L23/028
 DC - Q67
 PA - (OSAG) OSAKA GAS CO LTD
 - (SUMQ) SUMITOMO METAL IND LTD
 AP - JP19990083386 19990326
 PR - JP19990083386 19990326

© PAJ / JPO

PN - JP2000274566 A 20001003
 TI - DISPLACEMENT ABSORBING TYPE FLANGE PIPE COUPLER STRUCTURE

- AB** - **PROBLEM TO BE SOLVED:** To prevent slippage of a shaft center at gasket parts of both pipe end parts as much as possible and to prevent leakage by absorbing slippage of the shaft center even when slight slippage of the shaft center occurs.
- **SOLUTION:** This flange pipe coupler structure fastens both flanges by a bolt 3 and a nut 4 by interposing a gasket 5 between the flanges. A U-shaped gasket in a shape where a sealing part extends outside is used as the gasket 5. A coil type spring washer 7 is interposed between the flanges and the nut 4. Consequently, slippage of a shaft center hardly occurs at a connecting part of piping as a load is reduced by the spring washer and no load of more than required is applied on a piping system in the case when the load of more than required works on the piping system. Even in the case when slight slippage of the shaft center occurs, leakage never occurs as the U-shaped gasket in the shape where the sealing part extends outside is used.
- I** - F16L23/026 ;F16L23/024 ;F16L23/028
- PA** - OSAKA GAS CO LTD;SUMITOMO METAL IND LTD
- IN** - SHIMAZAKI YASUO;NAKAJIMA KIMIO
- ABD** - 20010205
- ABV** - 200013
- AP** - JP19990083386 19990326

3ボルト

4ナット

2

6

5

3

4

7スプリング

ワッシャー

1フランジ管継手

7

4

6

5

3

4

7

4

2aフランジ

2配管

3

3





